

In re Appin. of: John DAVIES
Appin. No.: 10/626,187
Filed: July 24, 2003

Group Art Unit: 3736
Examiner:

In the Claims:

1. (Original): A microphone adapter for a respirator having a speech projector, the adapter comprising a sound tube with a first open end designed to be located in the vicinity of the speech projector of the respirator and a second open end designed to be attached to a microphone, whereby, in use, speech emanating from the speech projector is transmitted via the sound tube to the microphone.
2. (Original): The adapter of claim 1 comprising a microphone box in which the second open end of the sound tube terminates, said box being arranged to fit over a microphone and shield the microphone from any incident sound other than that received via the sound tube.
3. (Original): The adaptor of claim 1 comprising a microphone box arranged to releasably push over a microphone.
4. (Original): A respirator having a speech projector and a microphone adaptor as claimed in claim 1.
5. (Original): The respirator of claim 4 comprising an exhale diaphragm located in a region substantially in front of the mouth of a wearer of the respirator, which diaphragm opens into the sound projector to leave a clear passage between the mouth of the wearer and the first open end of the sound tube when the wearer exhales during the speech process.
6. (Original): The respirator of claim 4 further comprising an inner face seal internal of an outer layer of the respirator wherein the exhale diaphragm extends through both the internal face seal and the outer layer.
7. (Original): Battlefield communication equipment comprising: a headset to be worn by an operative, the headset having earphones, a boom microphone and a connection

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for a radio enabling the operative to have two way communication; a respirator; and a microphone adaptor, the microphone adaptor having a sound tube and a microphone box arranged such that when the operative is wearing the respirator the operative can put the sound box over the boom microphone of the headset, the adaptor being arranged to receive speech from within the respirator and transmit that speech via the microphone tube and microphone box to the boom microphone.

8. (Original): The equipment of claim 7 wherein the respirator comprises a speech projector and the adaptor is arranged to receive speech from within the respirator via said speech projector.
9. (Original): The equipment of claim 8 comprising the adaptor of claim 1.
10. (Original): The equipment of claim 7 further comprising a digitally encrypted ratio to which the microphone is connected.
11. (New): Apparatus for allowing the user of a headset, having a boom microphone, to continue to use that microphone when wearing a respirator; characterised by a sound tube designed, at a first end, to receive sound from the respirator and adapted, at a second end, to make a releasable push-fit with an end of the microphone boom for rapid connection thereto.
12. (New): Apparatus according to Claim 11 characterised in that the second end of the sound tube carries a microphone box designed to fit over the end of the microphone boom and to shield the latter from incident sound other than that received via the sound tube.
13. (New): Apparatus according to Claim 11 characterised in that the microphone box defines a duct by which sound is transmitted from the tube, around an end of the boom, and then radially inward to a microphone sensor through a lateral aperture in the boom.

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14. (New): Apparatus for allowing radio communication by a person wearing a respirator, the apparatus comprising a headset having a boom which carries a microphone at one end; characterised by a channel which makes a releasable push fit over the end of the boom and which leads to a position in the respirator where speech from the user can be received for transmission along the channel to the microphone.